

Title (en)  
SPINDLE DISPENSING TONER CARTRIDGE

Title (de)  
SPINDELABGABETONERKARTUSCHE

Title (fr)  
CARTOUCHE DE TONER À DISTRIBUTION PAR FUSEAU

Publication  
**EP 3430477 B1 20210505 (EN)**

Application  
**EP 16894746 A 20160316**

Priority  
US 2016022674 W 20160316

Abstract (en)  
[origin: WO2017160287A1] A cartridge for use with an image forming apparatus. The cartridge includes a container configured for storing a volume of particulate image forming material and a dispensing port in communication with the container. The dispensing port includes a perimeter lip extending around a delivery passage. A dispensing spindle is rotatable relative to at least the dispensing port. The dispensing spindle includes a spindle core a plurality of arms extending from the spindle core. Each of the arms includes a sweeping face configured to sweep across the perimeter lip to convey a quantity of the particulate image forming material to the dispensing port.

IPC 8 full level  
**G03G 15/08** (2006.01); **G03G 15/00** (2006.01); **G03G 15/06** (2006.01)

CPC (source: EP US)  
**G03G 15/0872** (2013.01 - EP US); **G03G 15/0889** (2013.01 - EP US); **G03G 15/0886** (2013.01 - EP US); **G03G 2215/0678** (2013.01 - EP US)

Cited by  
EP4004651A4

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2017160287 A1 20170921**; EP 3430477 A1 20190123; EP 3430477 A4 20190327; EP 3430477 B1 20210505; US 10261440 B2 20190416; US 2018081298 A1 20180322

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**US 2016022674 W 20160316**; EP 16894746 A 20160316; US 201615531704 A 20160316